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	Application Number	10/056,312	}
	Filing Date	January 24, 2002	
	First Named Inventor	Daryl S. Meredith et al.	
	Art Unit	3724	•
	Examiner Name	1. Hamilton	
	Attorney Docket Number	TN-1488	

Total Number of Pages in This Submission ENCLOSURES (check all that apply) Fee Transmittal Form Drawing(s) After Allowance Communication to TC Appeal Communication to Board Licensing-related Papers Fee Attached of Appeals and Interferences Appeal Communication to TC Petition Amendment / Reply (Appeal Notice, Brief, Reply Brief) Petition to Convert to a After Final Proprietary Information **Provisional Application** Power of Attorney, Revocation Affidavits/declaration(s) Status Letter Change of Correspondence Address Terminal Disclaimer Other Enclosure(s) Extension of Time Request (please identify below): Return Post Card Request for Refund Express Abandonment Request CD, Number of CD(s) Information Disclosure Statement Landscape Table on CD Remarks Certified Copy of Priority Document(s) Reply to Missing Parts/ Incomplete Application Reply to Missing Parts under 37 CFR1.52 or 1.53 SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT Firm Black & Decker Inc Signature Printed Name Adan Ayala, Esq. Reg. Date 38,373 June 23, 2005

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UTILITY PATENT

B&D No. TN -1488

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

BOARD OF PATENT APPEALS AND INTERFERENCES

In re application of: Daryl S. Meredith et al.

Serial No.: 10/056,312

Examiner:

I. Hamilton

Filed: January 24, 2002

Group Art Unit: 3724

For: MITER SAW

Assistant Commissioner for Patents

Washington, DC 20231

APPEAL BRIEF

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Box 1450, Alexandria, VA 22313-1450 on 6-23-05

Adan Avala

Serial No. 10/056,312

UTILITY PATENT

B&D No. TN -1488

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Dear Sir:

I. INTRODUCTION

A final Office Action after Final was mailed on February 15, 2005. In response to such Action, a Notice of Appeal was mailed on May 11, 2005, for the above-identified application. The present appeal brief is being timely filed as required under 37 CFR § 41.37.

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II. REAL PARTY IN INTEREST

The real party in interest in the present case is Black & Decker Inc. An assignment transferring all rights to the present application and resulting patents was filed in the priority application. The assignment can be found at Reel 012524, Frame 0060.

III. RELATED APPEALS AND INTERFERENCES

No other appeals or interferences related to the present case are currently pending.

IV. STATUS OF CLAIMS

Claim 1 is currently pending in the present application. Claims 2-24 have been previously canceled.

Claim 1 is rejected and are presently appealed.

V. STATUS OF AMENDMENTS

No amendments have been filed subsequent to the final office action.

VI. SUMMARY OF CLAIMED SUBJECT MATTER

Pursuant to 37 CFR § 41.37 and MPEP § 1206, Applicant/appellant hereby provides a concise explanation of the inventions defined in the claims involved in the present appeal. This explanation refer to the specification by page and line number and to the drawings, as required by the CFR and the MPEP rules. However, the following explanation only refers to the embodiments

disclosed in the specification and does not discuss alternative mechanisms that would be covered by the claims. Accordingly, the following explanation should not be used to limit the scope of the claims.

Independent Claim 1 calls for a miter saw 1 comprising a base assembly 5 and a rotatable table 6 rotatably connected to the base assembly 5. Spec. p. 7, lns. 5-7. The table 6 has a plane 6P. Spec. p. 7, lns. 11-12.

Miter saw 1 also a saw assembly including a motor M, and a blade 2 disposed on an arbor A. Spec. p. 7, lns. 7-8 and 19-20. The arbor A has a first portion carrying the blade 2, a second portion disposed away from the blade 2, and a first gear G disposed on the second portion. FIG. 13 and spec. p. 7, lns. 19-20.

An intermediate gear G2 meshes with the first gear G. Spec. p. 7, lns. 18-19. A second gear G3 is driven by the motor M and meshes with the intermediate gear G2. Spec. p. 7, ln. 18 and p. 9, lns. 1-2. The intermediate gear G2 is always meshing with the first and second gears G and G3. FIG. 7. The second gear G2 is driven by the motor M via a belt B. Spec. p. 9, lns. 1-2.

Miter saw 1 also has a pivot arm 11 pivotally attached to the table 6 and supporting the saw assembly. Spec. p. 7, lns. 8-9. The pivot arm 11 and saw assembly are pivotable about a horizontal bevel axis from a first position where the blade 2 is substantially perpendicular to the table 6 to a second position where the blade 2 is disposed at an angle relative to the table 6. Spec. p. 19, lns. 9-10. The angle between the blade 2 and the table 6 is about 45 degrees. Id.

The distance between the second portion and at least one of the base assembly 5 and the table 6 is smaller than the distance between the first portion and the at least one of the base assembly 5 and the table 6 when the saw assembly is in the second position. See FIG. 13 and spec. p. 14, lns. 17-18.

VII. GROUNDS OF REJECTION TO BE REVIEWED ON APPEAL

Whether Claim 1 is are unpatentable under 35 USC § 103(a) over US Patent No. 5,425,294 ("Ushiwata") in view of US Patent No. 5,974,927 ("Tsune").

VIII. ARGUMENT

Claim 1 is Patentable under 35 USC § 103(a) Over Ushiwata and Tsune.

The Board should reverse the Examiner's improper final rejection of Claim 1 under 35 USC § 103(a) based on Ushiwata in view of Tsune. In particular, the Examiner erred by failing to show a suggestion or motivation to combine the reference teachings. Therefore, the Examiner's rejection was improper and should be reversed.

Ushiwata discloses all elements called for in Claim 1 except for the second gear being driven by the motor via a belt. The Examiner relies on Tsune to provide such missing element because "it would have been obvious to provide a belt in Ushiwata as taught by Tsune in order to provide a backlash eliminator assembly, which eliminates backlash between gears."

This rejection is improper as the Examiner has failed to make a *prima facie* case of obviousness. To establish such case, there must be some suggestion or motivation to one of ordinary skill in the art to combine the reference teachings. MPEP § 2143. In the present case, no such suggestion or motivation exists to combine Ushiwata and Tsune as proposed by the Examiner. This is because neither Ushiwata nor Tsune suggest the desirability of the claimed invention.

An obviousness rejection is improper if there's no motivation to combine, even if the combination of the references taught every element of the claimed invention. *In re Rouffet*, 149 F.3d 1350, 1357, 47 USPQ2d 1453, 1457-58 (Fed. Cir. 1998). When called upon to provide such motivation, the Examiner argued that the motivation to provide a belt can be found in Tsune "in order to provide a backlash eliminator assembly, which eliminates backlash between gears." However, Tsune does not teach using a belt to provide a backlash eliminator.

According to Tsune, backlash eliminator 16 temporarily applies braking to the final stage gear 15 upon initiation of the cutting action. Tsune, col. 2, lines 24-28. Such backlash eliminator 16 includes braking gear 17 (which engages final stage gear 15), braking disk 19, brake shaft 18, calipers 21 and hydraulic cylinder 22. Tsune, col. 2, lines 29-41.

In other words, the backlash eliminator 16 does not include a pulley 9 or a belt.

Accordingly, the pulley 9 and the belt do not interact with backlash eliminator 16 to provide the backlash eliminating function. Because pulley 9 and belt do not assist in the backlash eliminating function, a person skilled in the art would install not a pulley and/or belt to provide a

backlash eliminating function pursuant to Tsune. Therefore, the motivation to combine the references stated by the Examiner is invalid.

Faced with such facts, the Examiner now alleges that, "although the belt and pulley system are not a part of the backlash eliminator, the belt and pulley are required in the configuration of any apparatus that has the backlash eliminator because of the spatial arrangements and spatial constraints." In other words, the belt and pulley system are needed in all apparatus that have a backlash eliminator.

US Patent No. 5,8233,081 (attached hereto as Appendix B), which has the same inventor as Tsune, contradicts the Examiner's allegation, as the circular saw disclosed therein has a backlash eliminator without a belt or pulleys. In other words, "any apparatus that has the backlash eliminator" do not require a belt and pulley, as alleged by the Examiner. Therefore, the alleged motivation to combine the references does not truly exist.

Because no motivation exists to combine Ushiwata and Tsune, no proper *prima facie* case of obviousness can be made. Therefore, Claim 1 is patentable over Ushiwata/Tsune. Accordingly, Applicant/Appellant urges the Board to reverse the Examiner's improper rejection of the claim under Ushiwata/Tsune and to allow such claim.

UTILITY PATENT

B&D No. TN -1488

IX. APPENDICES

Applicant/Appellant has attached two appendices. In particular, Appendix A contains a copy of the claim involved in the appeal. In addition, Appendix B is a copy of US Patent No. 5,823,081.

X. CONCLUSION

Based on the foregoing, Applicant/appellant urges the Board to rule that Claim 1 is patentable over Ushiwata/Tsune.

Respectfully_submitted,

Adan Ayala, Reg. No. 38,373 Attorney for Applicants

Phone No. (410) 716-2368

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APPENDIX A

1. A miter saw comprising:

a base assembly;

a rotatable table rotatably connected to the base assembly and having a plane;

a saw assembly including a motor, and a blade disposed on an arbor, the arbor having a first portion carrying the blade, a second portion disposed away from the blade, and a first gear disposed on the second portion, an intermediate gear meshing with the first gear, and a second gear driven by the motor and meshing with the intermediate gear, wherein the intermediate gear is always meshing with the first and second gears, the second gear being driven by the motor via a belt; and

a pivot arm pivotally attached to the table and supporting the saw assembly, the pivot arm and saw assembly being pivotable about a horizontal bevel axis from a first position where the blade is substantially perpendicular to the table to a second position where the blade is disposed at an angle relative to the table, the angle between the blade and the table being about 45 degrees;

wherein a distance between the second portion and at least one of the base assembly and the table is smaller than a distance between the first portion and the at least one of the base assembly and the table when the saw assembly is in the second position.